

Upgrade grade

Write a program that input a list of student ID and grade, follow by a list of student ID that receive grade upgrade by one level (From **B+** to **A**, from **B** to **B+** from **C+** to **B**,.....)

Input

Consist of 2 parts

- First part has multiple line as a list of student ID and grade, one line per student, this part end on the line with **q** letter
- Second part has one line as a list of student ID (separate by space) that receive upgrade by one level

Output

A list of student ID and grade (After upgrade) of every students, one line per student, in the same order as input

Example

Input (from keyboard)	Output (on screen)
44444 A 22222 F 11111 B+ 66666 C 55555 B 33333 D+ q 33333 22222 55555	44444 A 22222 D 11111 B+ 66666 C 55555 B+ 33333 C

Hint

From example above, we can turn all input data into 3 lists

- **ids** = ['44444', '22222', '11111', '66666', '55555', '33333']
 - **grades** = ['A', 'F', 'B+', 'C', 'B', 'D+']
 - **uids** = ['33333', '22222', '55555']
- Use student ID from **uids** to find it in **ids** and identify the slot number (by using **index** method), then use it to change grade of that slot number in **grades**.

- For example, '33333' is on 5th slot of **ids**, grade of that student will also be on 5th slot of **grades**.